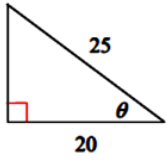


Math 2 Unit 7 Worksheet 4
Trigonometry and Inverse Functions

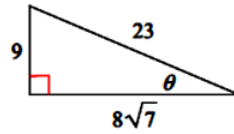
Name: _____
 Date: _____ Per: _____

[1-4] Find the value of each trigonometric ratio in reduced fraction form.

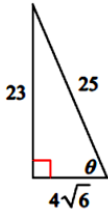
1. $\cos \theta$



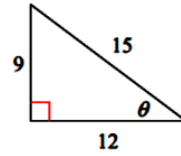
2. $\sin \theta$



3. $\sin \theta$

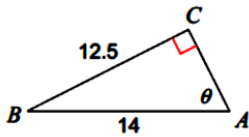


4. $\tan \theta$

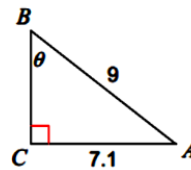


[5-14] Find the measure of each angle indicated. Round to the nearest tenth.

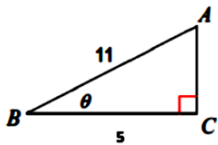
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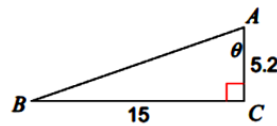
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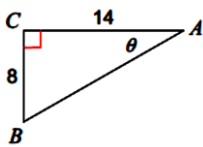
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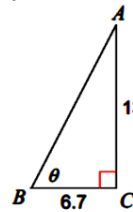
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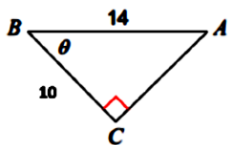
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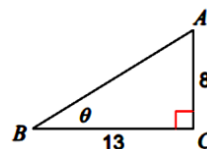
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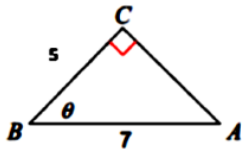
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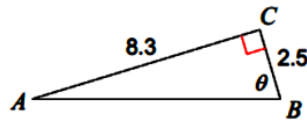
12.



13.



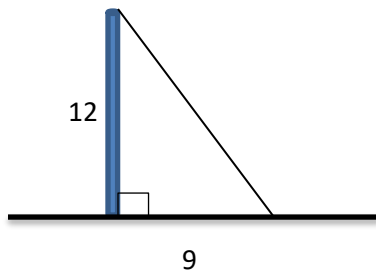
14.



[15-18] Solve the following using either the Pythagorean Theorem, Special Right Triangles, or Trigonometric ratios.

15. Jed is building a roof for his shed. The highest point of the roof will be 3 feet higher than the top of the shed. The slanted roof will be 7 feet long. What is the measure of the angle formed by the top of the shed and the slanted roof?

16. How long must a wire be to reach from the top of a 12-meter telephone pole to a point on the ground 9 meters from the base of the pole?



17. A 15-meter ladder is leaning against a wall. The bottom of the ladder makes a 60° angle with the ground. How high up on the wall does the ladder reach?

18. A repairman leans the top of an 8 foot ladder against the top of a stone wall. The base of the ladder is 5.5 feet from the wall. About how tall is the wall? **Round to the nearest tenth of a foot.**